Attorney Docket No. TSEN.P001

In the Claims

The claims as they currently stand are as follows.

- 1 1. (Original) A communications system, comprising:
- a plurality of mobile devices that each include a network subsystem and a
- 3 positioning subsystem, the network subsystem automatically assembling a wireless
- 4 network among the mobile devices for information transfer and automatically assigning
- 5 at least one unique identification number to each mobile device, the positioning
- 6 subsystem automatically generating position information of each mobile device; and
- 7 at least one control system coupled for information transfer with the plurality of
- 8 mobile devices, the control system tracking and mapping individual positions of each
- 9 mobile device using the position information and identifying each mobile device on the
- 10 map using the identification number.
- 1 2. (Original) The system of claim 1, wherein communications among the mobile
- 2 devices and the control system occur using at least one of High Frequency (HF)
- 3 communications, Very High Frequency (VHF) communications, Ultra High Frequency
- 4 (UHF)/microwave communications, cellular communications, satellite
- 5 communications, and Public Switched Telephone Network (PSTN) communications.
- 1 3. (Original) The system of claim 1, wherein the positioning subsystem includes
- 2 at least one of a Global Positioning System (GPS), a Radio Frequency
- 3 Identification/Direction Finding (RFID/DF) system, an infrared (IR) system, an
- 4 acoustic system, a triangulation system, and a signaling system.
- 1 4. (Original) The system of claim 1, wherein the information transfer includes
- 2 voice information and data.
- 1 5. (Original) The system of claim 1, wherein the identification number is a
- 2 media access control (MAC) address, wherein the MAC address is associated with

- 3 routing packets having modified priorities, wherein the routing packets are high quality
- 4 packets that provide reliable communication between the plurality of mobile devices
- 5 and the control system.
- 1 6. (Original) The system of claim 1, wherein the control system further
- 2 comprises a graphical user interface (GUI) that displays the individual positions of each
- 3 mobile device on a three-dimensional map.
- 7. (Original) The system of claim 1, wherein the identification number is a
- 2 media access control (MAC) address, wherein location-based multicast group Internet
- 3 Protocol (IP) addressing is used to map the individual positions of each mobile device
- 4 within an incident scene.
- 1 8. (Original) A portable communication device, comprising:
- 2 a network system that automatically assembles a wireless network among other
- 3 portable communication devices and control devices in an area and automatically
- 4 assigns a unique identification number to each portable communication device;
- 5 a communication system that receives and transmits voice and data
- 6 communications over the wireless network using at least one of High Frequency (HF)
- 7 communications, Very High Frequency (VHF) communications, Ultra High Frequency
- 8 (UHF)/microwave communications, cellular communications, satellite
- 9 communications, and Public Switched Telephone Network (PSTN) communications;
- 10 and
- a positioning system that includes Global Positioning System (GPS) components
- and at least one location sensor, the positioning system automatically determining a
- position of the device periodically and automatically transferring the position to at least
- one of the control devices via the wireless network.
- 9. (Original) A method for automatically tracking and communicating among
- 2 mobile devices, comprising:

	automatically	assembling a wireless network among a plurality of mobile devices			
and control systems in an area, wherein assembling includes adding mobile devices and					
	control systems to the wireless network as they arrive in the area and removing mobile				
devices and control systems from the wireless network as they depart the area;					
		e and data communications from each of the mobile devices of the			
wirel		herein the data communications include position and identification			
		mobile device of the wireless network;			
		ition and status of a mobile device using the position and			
ident	identification information; and				
14011		nap of an engagement and displaying individual positions, tracks,			
and i	_	of each mobile device of the wireless network using the position and			
	lification infom				
10011		•			
10.	(Original)	The method of claim 9, further comprising:			
	comparing in	formation of the voice and data communications with historical			
scenario and response information;					
generating predictions of engagement progress using results of the comparison;					
displaying the predictions on the map; and					
	updating the historical scenario and response information to include at least one of				
the i		the voice and data communications and the generated predictions.			
11.	(Original)	The method of claim 9, further comprising:			
	comparing in	formation of the voice and data communications with historical			

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comparing information of the voice and data communications with historical scenario and response information;

generating recommended courses of action using results of the comparison;

displaying the recommended courses of action on the map; and updating the historical scenario and response information to include at least one of the information of the voice and data communications and the generated recommended courses of action.

Attorney Docket No. TSEN.P001

1 12. (Original) The method of claim 9, where	ein macking a position and see	ALU3
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- 2 further comprises:
- 3 generating a historical position trace for each first responder; and
- displaying the position trace on the map.
- 1 13. (Original) The method of claim 9, further comprising receiving sensor data
- 2 from at least one sensor of at least one mobile device.
- 14. (Original) The method of claim 13, further comprising:
- 2 comparing the sensor data with historical scenario and response information;
- 3 generating predictions of engagement progress using results of the comparison;
- displaying the predictions on the map; and
- 5 updating the historical scenario and response information to include at least one of
- 6 the sensor data and the generated predictions.
- 1 15. (Original) The method of claim 14, further comprising generating
- 2 recommended courses of action using at least one of the results of the comparison and
- 3 the predictions.